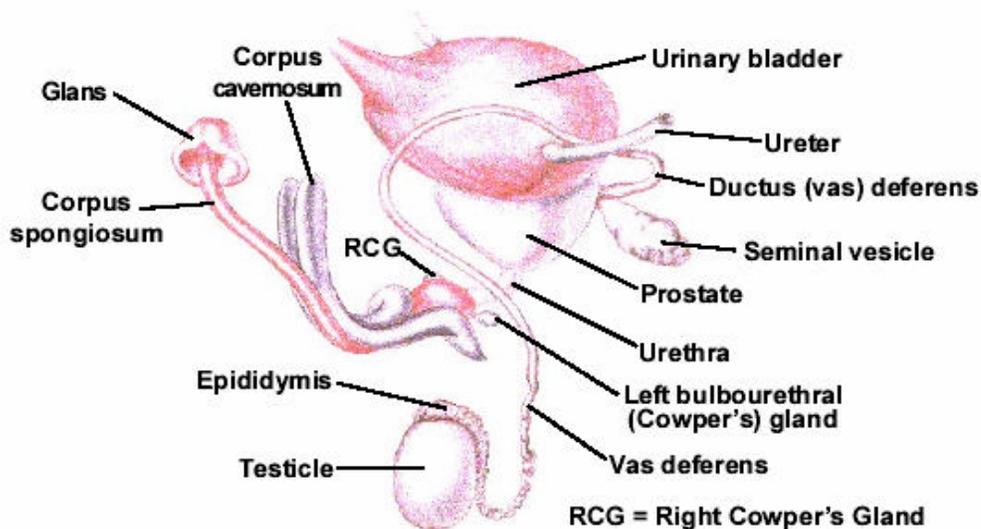


PROSTATE CANCER

PROSTATE CANCER

GENERAL PROFILE⁴

Figure 62. Anatomy of the Male Urogenital System⁵



General Anatomy: The prostate is a gland in a man's reproductive system. It makes and stores seminal fluid, a milky fluid that nourishes sperm. This fluid is released to form part of semen. The prostate is about the size of a walnut. It is located below the bladder and in front of the rectum. It surrounds the upper part of the urethra, the tube that empties urine from the bladder. If the prostate grows too large, the flow of urine can be slowed or stopped. To work properly, the prostate needs male hormones (androgens), which are responsible for male sex characteristics. The main male hormone is testosterone, which is made mainly by the testicles. Some male hormones are produced in small amounts by the adrenal glands.

Risk Factors: Age, family history of Prostate Cancer, race, and dietary factors are all important risk factors for Prostate Cancer.

Signs and Symptoms: A need to urinate frequently, especially at night, difficulty starting urination or holding back urine, inability to urinate, weak or interrupted flow of urine, painful or burning urination, difficulty in having an erection, painful ejaculation, blood in urine or semen, or frequent pain or stiffness in the lower back, hips, or upper thighs.

Diagnosing the Cancer: Digital rectal exam, blood test for prostate-specific antigen (PSA test), transrectal ultrasonography, intravenous pyelogram, and cystoscopy.

Treatment: Treatment options include: watchful waiting, surgery (prostatectomy, orchiectomy), radiation therapy, and hormonal therapy.

HIGHLIGHTS

- The ratio of the age-adjusted incidence rate, 125.7, to the age-adjusted mortality rate, 29.2 (per 100,000 – 2000 US Standard male population) for Prostate Cancer, was 4.30 during the 1996 to 2001 period, which means that for every 4.30 cancer cases there was one death due to Prostate Cancer in Nevada during this period.
- The median age at diagnosis of Prostate Cancer was 68 years of age for Nevada residents from 1997 to 2001. The median age at time of death due to Prostate Cancer was 77 years. Black males had the lowest median age at time of diagnosis of Prostate Cancer (66 years) and the largest difference (9 years) between the median age at diagnosis and median age at time of death (75 years) during this period.
- Native American males had the highest median age at diagnosis of Prostate Cancer (70 years).

CANCER SCREENING

- Of the 815 men in Nevada who were surveyed in 1997, 1999 and 2001, 82.1% responded yes to ever having a Prostate-Specific Antigen (PSA) test and/or a digital rectal exam to try and detect early signs of Prostate Cancer.
- The percentage of men who stated their education level as high school had the lowest percentage (77.1%) of those ever having a PSA test and/or a digital rectal exam, while those who stated their education level as a college graduate had the highest percentage (90.3%).
- Those men whose income was either less than \$15,000 or more than \$50,000 a year had the highest percentage of respondents who stated that they had ever received a PSA test or a digital rectal exam with percentages of 80.8% and 84.8%, respectively.

INCIDENCE

- Nevada's Prostate Cancer age-adjusted incidence rate, 125.7 (122.1-129.4), demonstrated statistical significance in being lower than the 1997-2001 National rate of 172.3 (171.4-173.3) (per 100,000 – 2000 US Standard male population) during this period.
- There were 5,337 resident Prostate Cancer cases reported in Nevada from 1997 to 2001. Statistically significant tests show that Washoe County had the highest age-adjusted incidence rate of cancer once regional comparisons were made, with a rate of 151.0 (141.6-161.0). The All Other Counties region and Clark County followed with rates of 123.9 (115.5-133.0) and 119.8 (115.5-124.3) (per 100,000 population – 2000 US Standard population), respectively.
- Racial/ethnic comparisons showed that Blacks and Whites, as racial/ethnic groups, had the highest statistically significant age-adjusted incidence rates for Prostate Cancer with

rates of 75.8 (67.4-85.3) and 61.6 (59.9-63.5), respectively, of all racial/ethnic groups. Asians, Hispanics and Native Americans, followed with rates of 23.5 (17.4-32.4), 31.3 (126.3-37.3) and 25.5 (15.8-40.1), respectively from 1997 to 2001.

INPATIENT HOSPITAL DISCHARGES

- There were 2,536 hospital inpatient discharges for Prostate Cancer among Nevada Residents from 1997 to 2001, with an age-adjusted inpatient discharge rate of 56.0 (per 100,000 – 2000 US Standard male population). The ‘All Other Counties’ region had the highest cancer age-adjusted inpatient discharge rate, 56.9, once regional comparisons were made, and was followed by Washoe County and Clark County with rates of 56.2 and 55.8, respectively.
- Total billed charges for hospital inpatient discharges due to Prostate Cancer in Nevada totaled nearly 52 million dollars from 1997 to 2001. Nevadans in the 55-74 year age group accounted for 75.1% of the total number of inpatient discharges and 78.9% of the total billed charges.
- Washoe County had a considerably higher median total billed charge for Prostate Cancer inpatient discharges (\$24,134) than Clark County (\$21,206) and All Other Counties (\$16,000) from 1997 to 2001.
- The overall average billed charge per day for a hospital inpatient discharge due to Prostate Cancer was just over \$5,781 in Nevada from 1997 to 2001.

MORTALITY

- There were 922 resident deaths due to Prostate Cancer in Nevada from 1997 to 2001. While Washoe County had the highest age-adjusted mortality rate from Prostate Cancer, 33.7, statistical analysis does not show statistical significance over the rates for Nevada overall, Clark County or All Other Counties, who had rates of 29.2, 28.4 and 27.0, respectively.
- Racial/ethnic comparisons showed that Blacks and Whites, as racial/ethnic groups, had the highest cancer age-adjusted mortality rates of 20.8 and 12.3, respectively, of all racial/ethnic groups. They were followed by Hispanics and Asians who had age-adjusted mortality rates of 7.0 and 5.0 (per 100,000 – 2000 US Standard male population), respectively, from 1997 to 2001.

SURVIVAL RATE

- The one-year survival rate for Prostate Cancer in Nevada was 85.6% during the 1997 to 2001 period, while the five-year survival rate was 65.6% during this same period. The median survival rate for Prostate Cancer in Nevada was greater than five years.
- The one-year survival rate for those diagnosed with Prostate Cancer at the localized stage was 89.4%, while those diagnosed at the regional, distant and unstaged stages had rates of 82.0%, 75.0% and 73.3%, respectively.

- The five-year survival rate for those diagnosed with Prostate Cancer at the localized stage was 76.3%, while those recorded at the regional, distant and unstaged stages had rates of 64.4%, 23.0% and 41.5%, respectively.
- Those diagnosed with Prostate Cancer at the distant stage had a significantly lower median survival rate than those at all other stages with a rate of 2.15 years compared to over five years for the localized and regional stages.

SCREENING (BRFSS)**Table 85. Prostate Cancer Screening by County/Region of Residence, Education, Age Group, and Income, Nevada Residents, 1997, 1999 and 2001**

Responses	Answers						Total
	Yes			No			
	Number	Percent*	95% C.I.	Number	Percent*	95% C.I.	
Total							
Responses	686	82.1%	(79.5%-84.7%)	129	17.9%	(15.3%-20.5%)	815
County/Region of Residence							
Clark County	216	79.7%	(74.9%-84.5%)	55	20.3%	(15.5%-25.1%)	271
Washoe County	213	85.7%	(81.4%-90.0%)	37	14.3%	(10.0%-18.6%)	250
All Other Counties	257	88.5%	(84.9%-92.1%)	37	11.5%	(7.9%-15.1%)	294
Education							
Less than High School	39	77.1%	(65.2%-89.0%)	9	22.9%	(11.0%-34.8%)	48
High School	173	69.2%	(63.2%-75.2%)	54	30.8%	(24.8%-36.8%)	227
Some Post High School	216	83.3%	(78.7%-87.9%)	38	16.7%	(12.1%-21.3%)	254
College Graduate	256	90.3%	(86.9%-93.7%)	37	9.7%	(6.3%-13.1%)	293
Age Group							
18-24 years old	0	---	---	0	---	---	0
25-34 years old	0	---	---	0	---	---	0
35-44 years old	103	61.3%	(53.4%-69.2%)	44	38.7%	(30.8%-46.6%)	147
45-54 years old	202	78.0%	(72.9%-83.1%)	54	22.0%	(16.9%-27.1%)	256
55-64 years old	175	90.8%	(86.8%-94.8%)	21	9.2%	(5.2%-13.2%)	196
65+ years old	206	94.0%	(90.8%-97.2%)	10	6.0%	(2.8%-9.2%)	216
Income							
Less than \$15,000	47	80.8%	(70.9%-90.7%)	14	19.2%	(9.3%-29.1%)	61
\$15,000 - \$24,999	40	74.0%	(62.0%-86.0%)	11	26.0%	(14.0%-38.0%)	51
\$25,000 - \$34,999	64	72.5%	(62.9%-82.1%)	19	27.5%	(17.9%-37.1%)	83
\$35,000 - \$49,999	120	74.8%	(67.8%-81.8%)	26	25.2%	(18.2%-32.2%)	146
\$50,000 or More	313	84.8%	(81.1%-88.5%)	41	15.2%	(11.5%-18.9%)	354

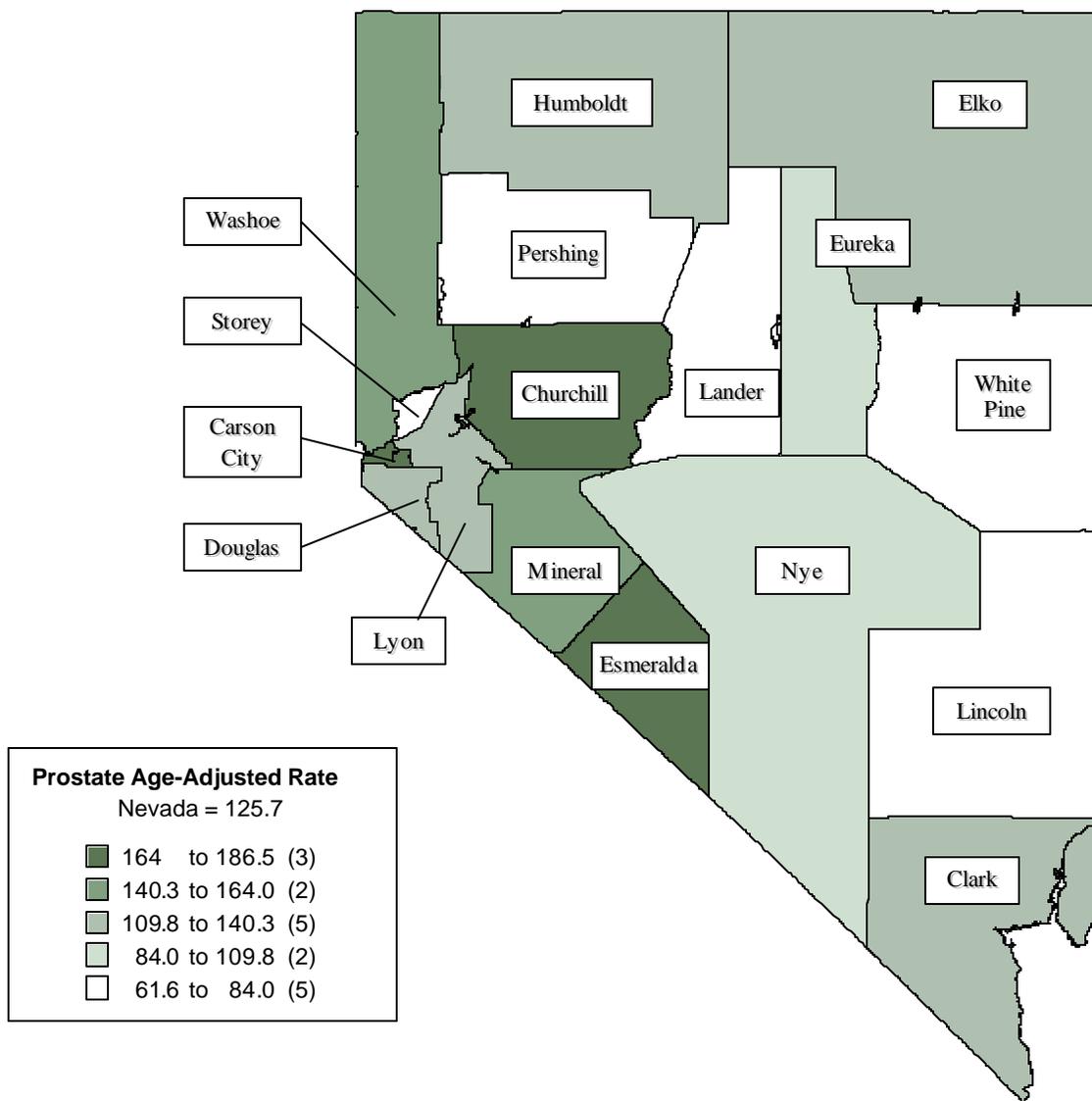
*Denominator is persons age 18-64 and excludes missing, don't know, and refused responses.

Note: This table includes those respondents who answered "Yes" or "No" to either of the following questions:

- 1) A Prostate-Specific Antigen test, also called a PSA test, is a blood test used to check men for prostate cancer. Have you ever had a PSA test?
- 2) A digital rectal exam is an exam in which a doctor, nurse, or other health professional places a gloved finger into the rectum to feel the size, and hardness of the prostate gland. Have you ever had a digital rectal exam?

INCIDENCE

Figure 63. Prostate Cancer Age-Adjusted (2001) Incidence Rates, Nevada Residents, 1997-2001



Note: Rates are per 100,000 male population and age-adjusted to 2001 US Standard population. Caution should be used when interpreting rates based upon small numbers. See Technical notes for more information.

Figure 64. Prostate Cancer Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1997-2001

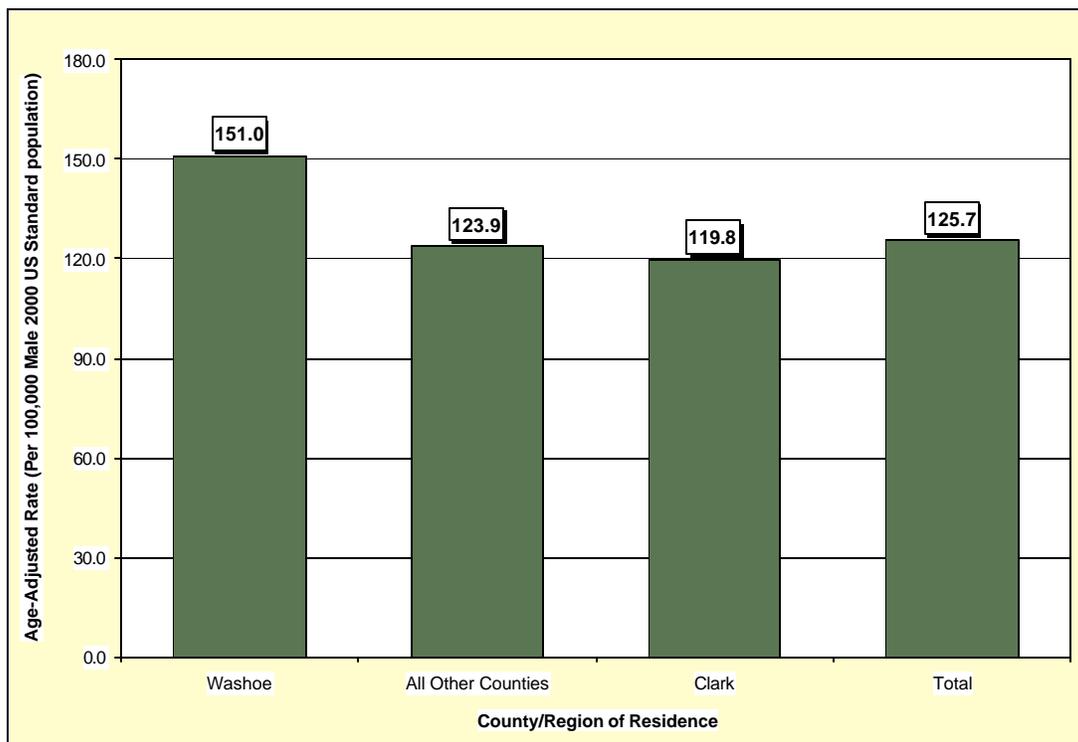


Figure 65. Prostate Cancer Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1997-2001

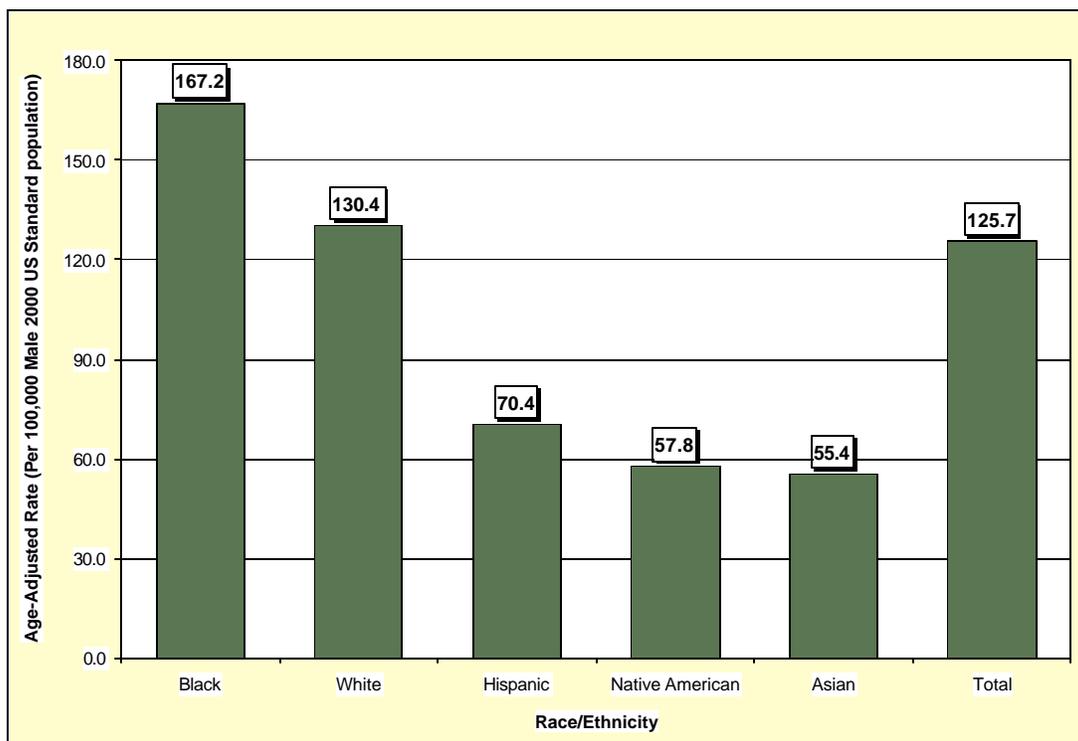


Table 86. Prostate Cancer Cases by Gender, Race/Ethnicity and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001)

Category	County/Region of Residence					SEER 11 (1997-2001)
	Nevada Total	Clark	Washoe	All Other Counties	Unknown	
Total						
Cases	5,337	3,408	1,053	874	2	127,779
Rate*	58.6	55.8	69.7	59.0	---	75.0
95% C.I.	(57.0-60.3)	(53.9-57.8)	(65.5-74.2)	(55.1-63.1)	---	(74.6-75.5)
Gender						
Male	5,337	3,408	1,053	874	2	127,779
Rate*	125.7	119.8	151.0	123.9	---	172.3
95% C.I.	(122.1-129.4)	(115.5-124.3)	(141.6-161.0)	(115.5-133.0)	---	(171.4-173.3)
Female	0	0	0	0	0	0
Rate*	---	---	---	---	---	---
95% C.I.	---	---	---	---	---	---
Other/Unknown	0	0	0	0	0	0
Race/Ethnicity						
White	4,696	2,907	973	814	2	100,957
Rate*	61.6	59.1	73.2	59.7	---	73.5
95% C.I.	(59.9-63.5)	(56.9-61.4)	(68.7-78.0)	(55.6-64.1)	---	(73.0-73.9)
Black	326	278	31	17	0	15,708
Rate*	75.8	70.2	130.4	204.4	---	111.3
95% C.I.	(67.4-85.3)	(61.8-79.9)	(87.9-189.0)	(118.6-334.7)	---	(109.6-113.1)
Native American	23	9	6	8	0	309
Rate*	25.5	---	---	---	---	22.1
95% C.I.	(15.8-40.1)	---	---	---	---	(19.6-19.6)
Asian	77	54	17	6	0	7,359
Rate*	23.5	19.2	28.4	---	---	43.8
95% C.I.	(17.4-32.4)	(13.6-28.5)	(15.8-57.8)	---	---	(42.8-44.9)
Hispanic	174	125	24	25	0	8,932
Rate*	31.3	29.3	32.6	44.2	---	57.8
95% C.I.	(26.3-37.3)	(23.8-36.2)	(19.6-54.1)	(27.4-69.6)	---	(56.6-59.1)
Other/Unknown	41	35	2	4	0	3,446

*Rates are per 100,000 male population and age-adjusted to the 2001 US Standard population.

Note: The "----" is used for rates calculated on numbers less than ten and SEER numbers less than five. Caution should be used when comparing rates for racial/ethnic groups to the National (SEER) rates. See Technical Notes for more information.

Table 87. Prostate Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001)

Category	County/Region of Residence					SEER 11 (1995-1999)
	Nevada Total	Clark	Washoe	All Other Counties	Unknown	
Total						
Cases	5,337	3,408	1,053	874	2	119,272
Rate*	107.8	100.6	123.7	123.1	---	130.9
95% C.I.	(104.9-110.7)	(97.2-103.9)	(116.3-131.2)	(114.9-131.3)	---	(130.1-131.6)
Age Group						
<1	0	0	0	0	0	---
Rate*	---	---	---	---	---	---
95% C.I.	---	---	---	---	---	---
1-4	0	0	0	0	0	---
Rate*	---	---	---	---	---	---
95% C.I.	---	---	---	---	---	---
5-14	0	0	0	0	0	---
Rate*	---	---	---	---	---	---
95% C.I.	---	---	---	---	---	---
15-24	1	1	0	0	0	7
Rate*	---	---	---	---	---	---
95% C.I.	---	---	---	---	---	---
25-34	1	1	0	0	0	11
Rate*	---	---	---	---	---	0.1
95% C.I.	---	---	---	---	---	(0.0-0.1)
35-44	14	8	3	3	0	421
Rate*	1.7	---	---	---	---	2.7
95% C.I.	(0.8-2.6)	---	---	---	---	(2.4-3.0)
45-54	381	255	65	60	1	7,828
Rate*	58.6	59.7	53.9	58.7	---	69.5
95% C.I.	(52.7-64.5)	(52.4-67.0)	(40.8-66.9)	(43.8-73.5)	---	(67.9-71.0)
55-64	1,456	963	281	212	0	28,440
Rate*	320.0	315.7	368.7	287.6	---	423.4
95% C.I.	(303.6-336.5)	(295.7-335.6)	(325.6-411.9)	(248.9-326.3)	---	(418.4-428.3)
65-74	2,225	1,409	460	356	0	48,387
Rate*	702.0	659.9	924.2	663.6	---	938.8
95% C.I.	(672.8-731.2)	(625.4-694.3)	(839.8-1,008.7)	(594.6-732.5)	---	(930.4-947.1)
75-84	1,028	638	198	191	1	28,206
Rate*	648.5	601.3	799.1	690.7	---	973.2
95% C.I.	(608.8-688.1)	(554.7-648.0)	(687.8-910.4)	(592.7-788.6)	---	(961.9-984.6)
85+	221	126	44	51	0	5,964
Rate*	893.0	849.5	908.8	1,005.2	---	804.7
95% C.I.	(775.3-1,010.8)	(701.2-997.9)	(640.3-1,177.3)	(729.3-1,281.1)	---	(784.2-825.1)
Unknown	10	7	2	1	0	0

* Rates are per 100,000 age-specific male population.

Note: The “---” is used for rates calculated on numbers less than ten and SEER numbers less than five. See Technical Notes for more information.

Table 88. Prostate Cancer Cases by County of Residence at Diagnosis, Nevada Residents, 1997-2001

County of Residence at Diagnosis	1997-2001 Incidence				
	Cases	Rate*		Age-Adjusted Rate**	
		Rate	95% C.I.	Rate	95% C.I.
Carson City	242	197.7	(172.8-222.6)	186.5	(163.5-212.4)
Churchill	88	145.5	(115.1-175.9)	164.5	(131.1-205.8)
Clark	3,408	100.6	(97.2-103.9)	119.8	(115.5-124.3)
Douglas	141	136.5	(113.9-159.0)	116.0	(96.3-139.9)
Elko	62	51.3	(38.6-64.1)	123.6	(89.7-168.6)
Esmeralda	5	---	---	---	---
Eureka	4	---	---	---	---
Humboldt	30	68.3	(43.9-92.7)	109.9	(70.9-169.9)
Lander	6	---	---	---	---
Lincoln	10	95.9	(36.5-155.3)	73.5	(35.2-154.6)
Lyon	129	149.7	(123.9-175.5)	128.8	(106.9-155.2)
Mineral	25	187.5	(114.0-261.0)	140.4	(87.3-224.8)
Nye	102	126.4	(101.9-150.9)	84.1	(67.9-105.3)
Pershing	7	---	---	---	---
Storey	9	---	---	---	---
Washoe	1,053	123.7	(116.3-131.2)	151.0	(141.6-161.0)
White Pine	14	66.7	(31.8-101.7)	61.6	(33.4-107.6)
Unknown	2	---	---	---	---
Total	5,337	107.8	(104.9-110.7)	125.7	(122.1-129.4)

Note: The “---” is used for rates calculated on numbers less than ten. *Rates are per 100,000 male population. **Rates are per 100,000 male population and are age-adjusted to the 2001 US Standard population.

Table 89. Prostate Cancer Cases by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

Race/Ethnicity		Gender			
		Male	Female	Other/Unknown	Total
White	Incidence	4,696	0	0	4,696
	Rate*	130.4	---	---	61.6
	95% C.I.	(126.5-134.5)	---	---	(59.9-63.5)
Black	Incidence	326	0	0	326
	Rate*	167.2	---	---	75.8
	95% C.I.	(147.5-190.4)	---	---	(67.4-85.3)
Native American	Incidence	23	0	0	23
	Rate*	57.8	---	---	25.5
	95% C.I.	(34.7-96.8)	---	---	(15.8-40.1)
Asian	Incidence	77	0	0	77
	Rate*	55.4	---	---	23.5
	95% C.I.	(41.3-76.0)	---	---	(17.4-32.4)
Hispanic	Incidence	174	0	0	174
	Rate*	70.4	---	---	31.3
	95% C.I.	(58.3-85.5)	---	---	(26.3-37.3)
Other/Unknown		41	0	0	41
Total	Incidence	5,337	0	0	5,337
	Rate*	125.7	---	---	58.6
	95% C.I.	(122.1-129.4)	---	---	(57.0-60.3)

Note: The “---” is used for rates calculated on numbers less than ten. *Rates are per 100,000 male population and are age-adjusted to the 2001 US Standard population.

Table 90. Prostate Cancer Cases by Age Group and Gender, Nevada Residents, 1997-2001

Age Group	Gender			
	Male	Female	Other/ Unknown	Total
<1	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
1-4	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
5-14	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
15-24	1	0	0	1
Rate*	---	---	---	---
95% C.I.	---	---	---	---
25-34	1	0	0	1
Rate*	---	---	---	---
95% C.I.	---	---	---	---
35-44	14	0	0	14
Rate*	1.7	---	---	0.9
95% C.I.	(0.8-2.6)	---	---	(0.4-1.4)
45-54	381	0	0	381
Rate*	58.6	---	---	29.7
95% C.I.	(52.7-64.5)	---	---	(26.7-32.7)
55-64	1,456	0	0	1,456
Rate*	320.0	---	---	158.9
95% C.I.	(303.6-336.5)	---	---	(150.8-167.1)
65-74	2,225	0	0	2,225
Rate*	702.0	---	---	346.4
95% C.I.	(672.8-731.2)	---	---	(332.0-360.8)
75-84	1,028	0	0	1,028
Rate*	648.5	---	---	292.6
95% C.I.	(608.8-688.1)	---	---	(274.8-310.5)
85+	221	0	0	221
Rate*	893.0	---	---	289.9
95% C.I.	(775.3-1,010.8)	---	---	(251.7-328.1)
Unknown	10	0	0	10
Total	5,337	0	0	5,337
Rate*	107.8	---	---	54.8
95% C.I.	(104.9-110.7)	---	---	(53.3-56.3)

Note: The “---” is used for rates calculated on numbers less than ten.

* Rates are per 100,000 age-specific population.

Table 91. Prostate Cancer Cases by Age Group and Stage, Nevada Residents, 1997-2001

Age Group		Stage					Total
		In situ	Localized	Regional	Distant	Unstaged	
<1	Number	0	0	0	0	0	0
	Percent	---	---	---	---	---	---
1-4	Number	0	0	0	0	0	0
	Percent	---	---	---	---	---	---
5-14	Number	0	0	0	0	0	0
	Percent	---	---	---	---	---	---
15-24	Number	0	1	0	0	0	1
	Percent	---	100.0%	---	---	---	100.0%
25-34	Number	0	1	0	0	0	1
	Percent	---	100.0%	---	---	---	100.0%
35-44	Number	0	11	2	0	1	14
	Percent	---	78.6%	14.3%	---	7.1%	100.0%
45-54	Number	0	283	50	7	41	381
	Percent	---	74.3%	13.1%	1.8%	10.8%	100.0%
55-64	Number	0	1,051	211	41	153	1,456
	Percent	---	72.2%	14.5%	2.8%	10.5%	100.0%
65-74	Number	0	1,631	197	105	292	2,225
	Percent	---	73.3%	8.9%	4.7%	13.1%	100.0%
75-84	Number	0	648	45	73	262	1,028
	Percent	---	63.0%	4.4%	7.1%	25.5%	100.0%
85+	Number	0	92	10	20	99	221
	Percent	---	41.6%	4.5%	9.0%	44.8%	100.0%
Unknown	Number	0	8	1	1	0	10
	Percent	---	80.0%	10.0%	10.0%	---	100.0%
Total	Number	0	3,726	516	247	848	5,337
	Percent	---	69.8%	9.7%	4.6%	15.9%	100.0%

Table 92. Prostate Cancer Cases by Stage and Race/Ethnicity, Nevada Residents, 1997-2001

Stage		Race/Ethnicity						Total
		White	Black	Native American	Asian	Hispanic	Other/Unknown	
In situ	Number	0	0	0	0	0	0	0
	Percent	---	---	---	---	---	---	---
Localized	Number	3,296	223	12	47	125	23	3,726
	Percent	70.2%	68.4%	52.2%	61.0%	71.8%	56.1%	69.8%
Regional	Number	458	31	4	5	13	5	516
	Percent	9.8%	9.5%	17.4%	6.5%	7.5%	12.2%	9.7%
Distant	Number	217	13	0	7	10	0	247
	Percent	4.6%	4.0%	---	9.1%	5.7%	---	4.6%
Unstaged	Number	725	59	7	18	26	13	848
	Percent	15.4%	18.1%	30.4%	23.4%	14.9%	31.7%	15.9%
Total	Number	4,696	326	23	77	174	41	5,337
	Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

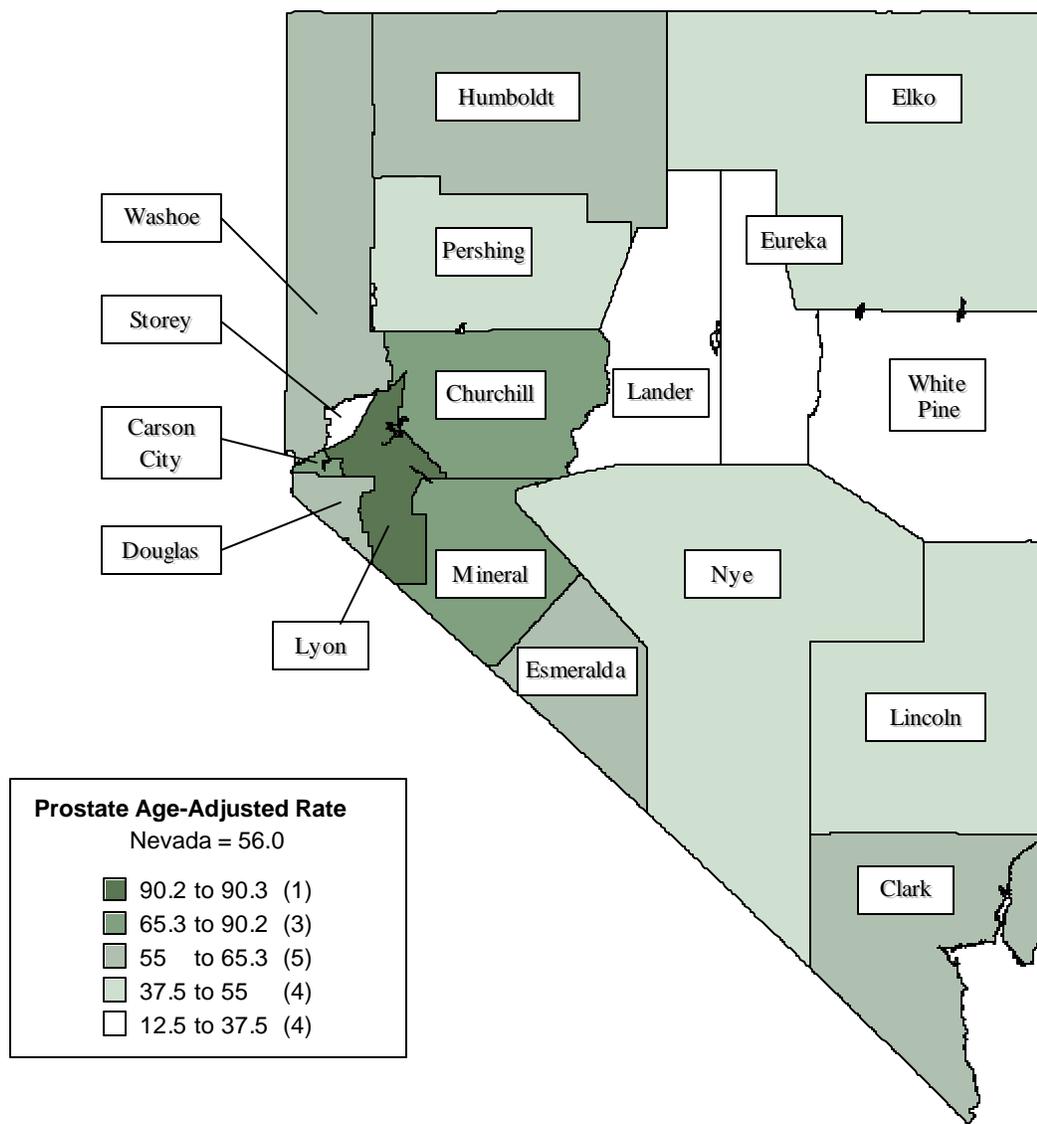
Table 93. Median Age at Diagnosis of Prostate Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

Race/Ethnicity	Gender					
	Male		Female		Total	
	Incidence	Median Age	Incidence	Median Age	Incidence	Median Age
White	4,686	68.0	0	---	4,686	68.0
Black	326	66.0	0	---	326	66.0
Native American	23	70.0	0	---	23	70.0
Asian	77	67.0	0	---	77	67.0
Hispanic	174	68.0	0	---	174	68.0
Other/Unknown	41	66.0	0	---	41	66.0
Total	5,327	68.0	0	---	5,327	68.0

Note: Those cases of other/unknown gender and/or unknown ages are not included in this table. The median age was not calculated for those numbers less than five.

INPATIENT HOSPITAL DISCHARGES

Figure 66. Prostate Cancer Age-Adjusted (2001) Inpatient Discharge Rates, Nevada Residents, 1997-2001



Note: Rates are per 100,000 male population and age-adjusted to 2001 US Standard population. Caution should be used when interpreting rates based upon small numbers and comparing inpatient hospital discharge rates to other data sources, because it is occurrence based data. See Technical notes for more information.

Figure 67. Prostate Cancer Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1997-2001

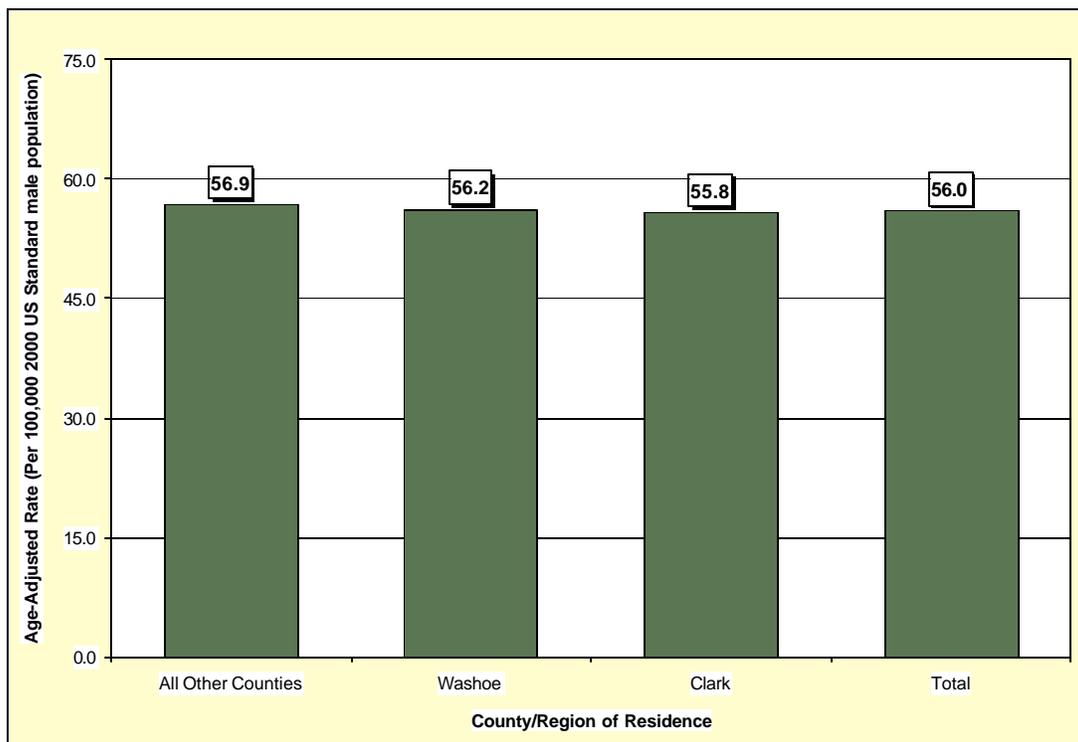


Figure 68. Median Charges for Prostate Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001

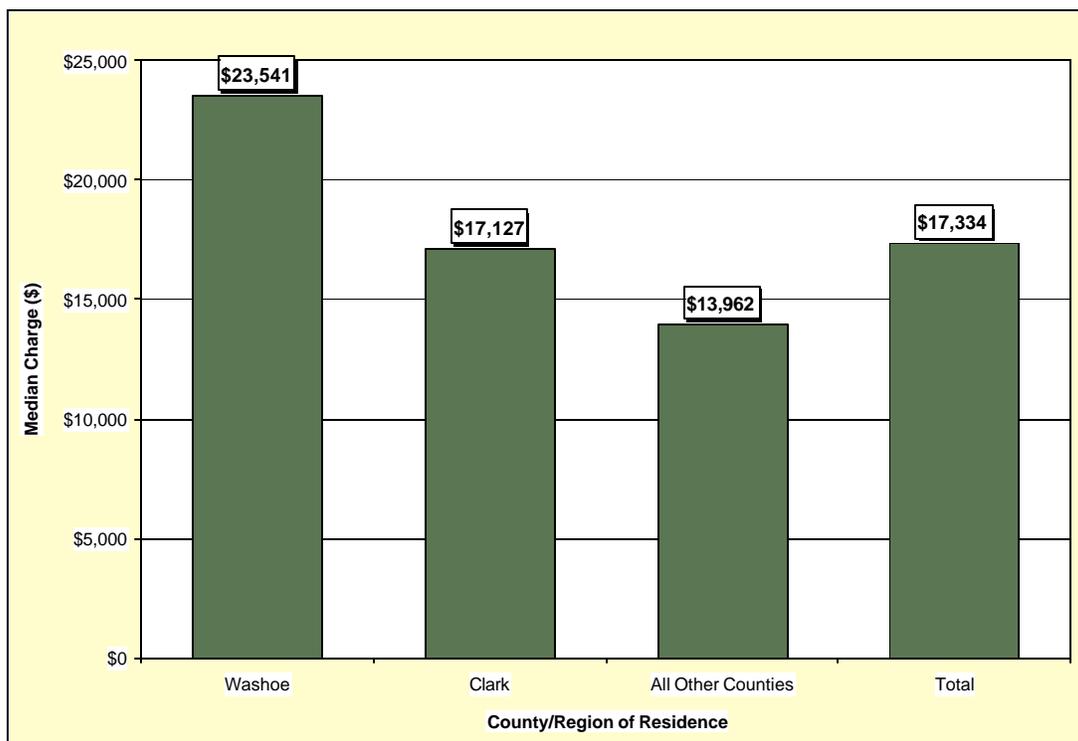


Figure 69. Average Length of Stay for Prostate Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001

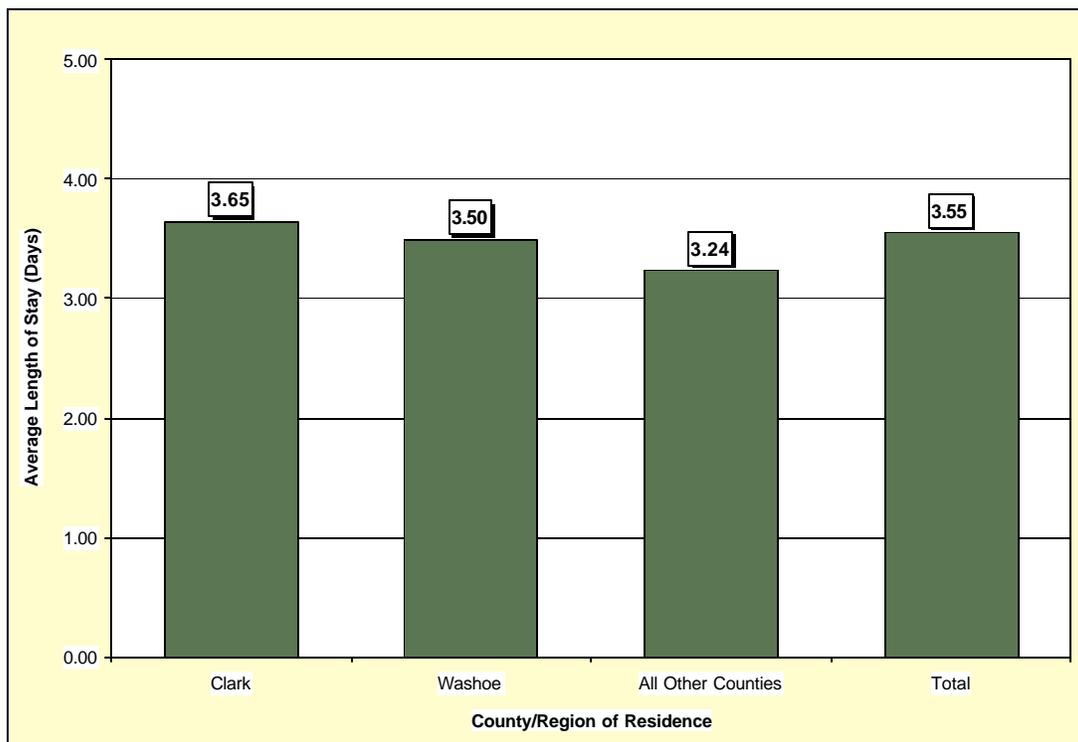


Table 94. Prostate Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001

Category	County/Region of Residence				
	Nevada Total	Clark	Washoe	All Other Counties	Unknown
Total					
Discharges	2,536	1,679	426	431	0
Rate*	26.8	26.5	26.9	27.8	---
95% C.I.	(25.7-27.9)	(25.2-27.8)	(24.4-29.6)	(25.2-30.7)	---
Gender					
Male	2,536	1,679	426	431	0
Rate*	56.0	55.8	56.2	56.9	---
95% C.I.	(53.8-58.4)	(53.0-58.8)	(50.8-62.2)	(51.4-62.9)	---
Female	0	0	0	0	0
Rate*	---	---	---	---	---
95% C.I.	---	---	---	---	---
Other/Unknown	0	0	0	0	0
Inpatient Discharge Charges (\$)					
Total Charges	\$52,781,802	\$35,604,697	\$10,281,114	\$6,895,991	---
Average Charges	\$20,813	\$21,206	\$24,134	\$16,000	---
Median Charges	\$17,334	\$17,127	\$23,541	\$13,962	---
Discharge Length of Stay (LOS) (Days)					
Total LOS	9,007	6,123	1,489	1,395	---
Average LOS	3.6	3.6	3.5	3.2	---
Median LOS	3.0	3.0	3.0	3.0	---

* Rates are per 100,000 male population and are age-adjusted to the 2001 US Standard population.

Note: The “---“ is used for rates calculated on numbers less than ten. Caution should be used when comparing inpatient hospital discharge data to other data sources, since it is occurrence-based data. Please see Technical Notes for more information.

Table 95. Prostate Cancer Inpatient Discharges by Age Group and County/Region of Residence, Nevada Residents, 1997-2001

Category	County/Region of Residence				
	Nevada Total	Clark	Washoe	All Other Counties	Unknown
Total					
Cases	2,536	1,679	426	431	0
Rate*	51.2	49.5	50.1	60.7	---
95% C.I.	(49.2-53.2)	(47.2-51.9)	(45.3-54.8)	(55.0-66.4)	---
Age Group					
<1	0	0	0	0	0
Rate*	---	---	---	---	---
95% C.I.	---	---	---	---	---
1-4	0	0	0	0	0
Rate*	---	---	---	---	---
95% C.I.	---	---	---	---	---
5-14	0	0	0	0	0
Rate*	---	---	---	---	---
95% C.I.	---	---	---	---	---
15-24	0	0	0	0	0
Rate*	---	---	---	---	---
95% C.I.	---	---	---	---	---
25-34	0	0	0	0	0
Rate*	---	---	---	---	---
95% C.I.	---	---	---	---	---
35-44	12	9	1	2	0
Rate*	1.5	---	---	---	---
95% C.I.	(0.6-2.3)	---	---	---	---
45-54	273	180	51	42	0
Rate*	42.0	42.1	42.3	41.1	---
95% C.I.	(37.0-47.0)	(36.0-48.3)	(30.7-53.8)	(28.6-53.5)	---
55-64	941	632	164	145	0
Rate*	206.8	207.2	215.2	196.7	---
95% C.I.	(193.6-220.0)	(191.0-223.3)	(182.3-248.1)	(164.7-228.7)	---
65-74	963	612	162	189	0
Rate*	303.8	286.6	325.5	352.3	---
95% C.I.	(284.6-323.0)	(263.9-309.3)	(275.4-375.6)	(302.1-402.5)	---
75-84	283	206	38	39	0
Rate*	178.5	194.2	153.4	141.0	---
95% C.I.	(157.7-199.3)	(167.6-220.7)	(104.6-202.1)	(96.8-185.3)	---
85+	64	40	10	14	0
Rate*	258.6	269.7	206.5	275.9	---
95% C.I.	(195.3-322.0)	(186.1-353.3)	(78.5-334.6)	(131.4-420.5)	---
Unknown	0	0	0	0	0

* Rates are per 100,000 age-specific male population.

Note: The "—" is used for rates calculated on numbers less than ten. Caution should be used when comparing inpatient hospital discharge data to other data sources, since it is occurrence-based data. Please see Technical Notes for more information.

Table 96. Prostate Cancer Inpatient Discharges by Age Group and Gender, Nevada Residents, 1997-2001

Age Group	Gender		
	Male	Female	Total
<1	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
1-4	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
5-14	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
15-24	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
25-34	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
35-44	12	0	12
Rate*	1.5	---	0.8
95% C.I.	(0.6-2.3)	---	(0.3-1.2)
45-54	273	0	273
Rate*	42.0	---	21.3
95% C.I.	(37.0-47.0)	---	(18.7-23.8)
55-64	941	0	941
Rate*	206.8	---	102.7
95% C.I.	(193.6-220.0)	---	(96.1-109.3)
65-74	963	0	963
Rate*	303.8	---	149.9
95% C.I.	(284.6-323.0)	---	(140.5-159.4)
75-84	283	0	283
Rate*	178.5	---	80.6
95% C.I.	(157.7-199.3)	---	(71.2-89.9)
85+	64	0	64
Rate*	258.6	---	83.9
95% C.I.	(195.3-322.0)	---	(63.4-104.5)
Unknown	0	0	0
Total	2,536	0	2,536
Rate*	51.2	---	26.0
95% C.I.	(49.2-53.2)	---	(25.0-27.1)

* Rates are per 100,000 male age-specific population.

Note: The "----" is used for rates calculated on numbers less than ten. Caution should be used when comparing inpatient hospital discharge data to other data sources, since it is occurrence-based data. Please see Technical Notes for more information.

Table 97. Prostate Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001

County of Residence	1997-2001 Inpatient Hospital Discharges				
	Number	Rate*		Age-Adjusted Rate**	
		Rate	95% C.I.	Rate	95% C.I.
Carson City	88	35.3	(27.9-42.7)	30.5	(24.5-37.8)
Churchill	42	34.8	(24.3-45.4)	35.6	(25.6-48.7)
Clark	1,679	25.2	(24.0-26.4)	26.5	(25.2-27.8)
Douglas	76	37.1	(28.7-45.4)	29.6	(23.1-38.0)
Elko	27	11.7	(7.3-16.1)	19.0	(12.0-29.6)
Esmeralda	2	---	---	---	---
Eureka	1	---	---	---	---
Humboldt	16	19.1	(9.7-28.4)	26.5	(14.8-45.4)
Lander	2	---	---	---	---
Lincoln	5	---	---	---	---
Lyon	94	55.3	(44.1-66.4)	45.0	(36.3-55.7)
Mineral	13	49.3	(22.5-76.0)	33.3	(17.6-63.6)
Nye	55	35.0	(25.7-44.2)	23.6	(17.5-32.0)
Pershing	5	---	---	---	---
Storey	2	---	---	---	---
Washoe	426	25.4	(23.0-27.8)	26.9	(24.4-29.6)
White Pine	3	---	---	---	---
Unknown	0	---	---	---	---
Total	2,536	26.0	(25.0-27.1)	26.8	(25.7-27.9)

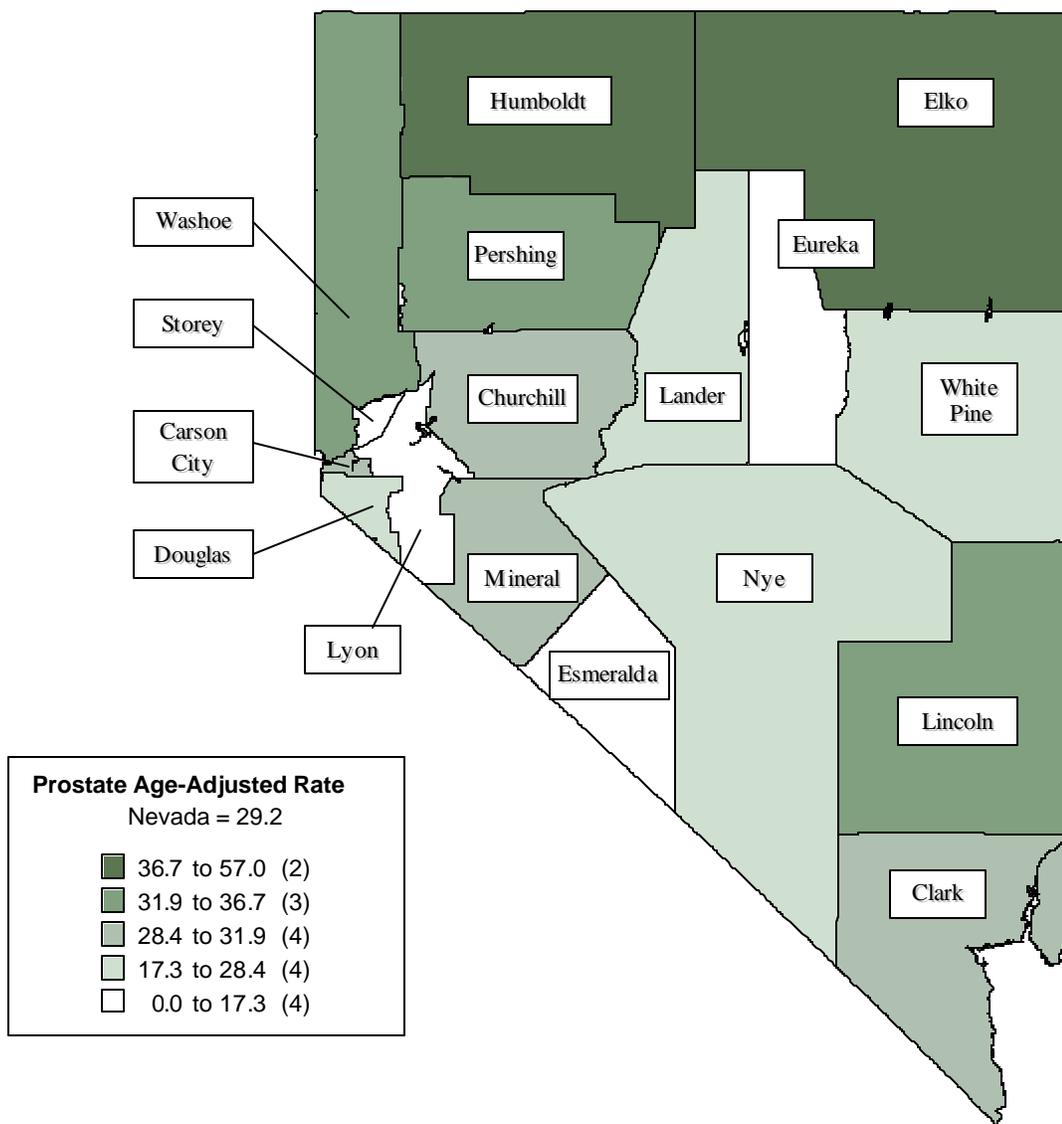
Note: The "----" is used for rates calculated on numbers less than ten. *Rates are per 100,000 male population. **Rates are per 100,000 male population and are age-adjusted to the 2001 US Standard population.

Table 98. Prostate Cancer Inpatient Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1997-2001

Age Group	Discharges	Charges (\$)			Length of Stay (Days)		
		Total	Average	Median	Total	Average	Median
<1	0	---	---	---	---	---	---
1-4	0	---	---	---	---	---	---
5-14	0	---	---	---	---	---	---
15-24	0	---	---	---	---	---	---
25-34	0	---	---	---	---	---	---
35-44	12	207,402	17,284	16,642	38	3.2	3.0
45-54	273	5,169,236	18,935	17,878	875	3.2	3.0
55-64	941	23,334,538	24,798	18,397	3,283	3.5	3.0
65-74	963	18,281,703	18,984	17,340	3,410	3.5	3.0
75-84	283	4,526,806	15,996	11,788	1,108	3.9	2.0
85+	64	1,262,117	19,721	11,337	293	4.6	3.0
Unknown	0	---	---	---	---	---	---
Total	2,536	4,294,945	2,450	20,277	45	2,450.0	3.7

MORTALITY

Figure 70. Prostate Cancer Age-Adjusted (2001) Mortality Rates, Nevada Residents, 1997-2001



Note: Rates are per 100,000 male population and age-adjusted to 2001 US Standard population. Caution should be used when interpreting rates based upon small numbers. See Technical notes for more information.

Figure 71. Prostate Cancer Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1997-2001

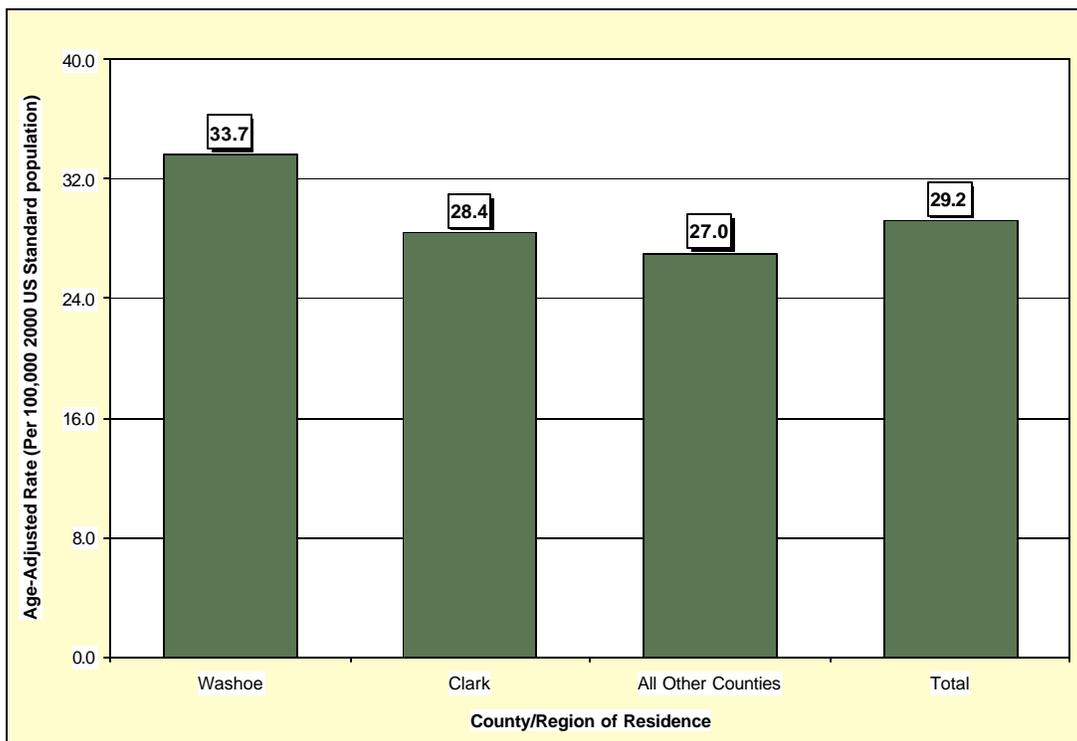


Figure 72. Prostate Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1997-2001

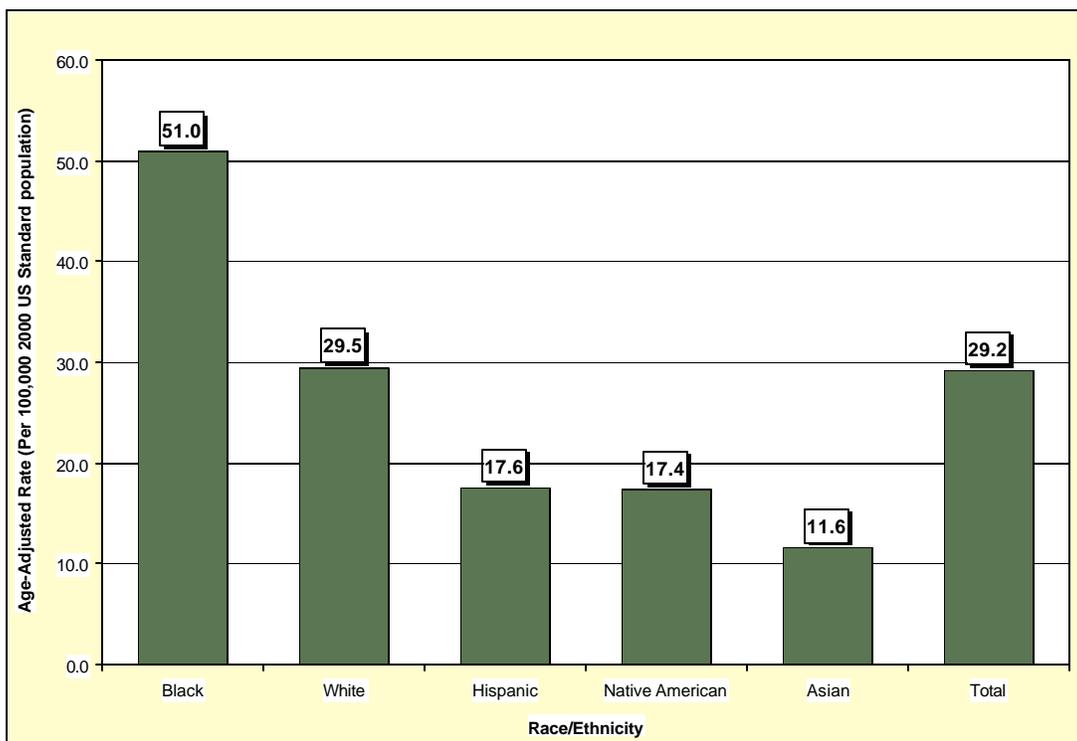


Table 99. Prostate Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001

Category	County/Region of Residence			
	Nevada Total	Clark	Washoe	All Other Counties
Total				
Mortality	922	606	170	146
Rate*	12.1	11.9	13.3	11.6
95% C.I.	(11.3-13.0)	(10.9-12.9)	(11.3-15.5)	(9.7-13.7)
Gender				
Male	922	606	170	146
Rate*	29.2	28.4	33.7	27.0
95% C.I.	(27.2-31.4)	(25.9-31.1)	(28.5-39.7)	(22.5-32.3)
Female	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
Other/Unknown	0	0	0	0
Race/Ethnicity				
White	810	514	159	137
Rate*	12.3	12.0	13.7	11.7
95% C.I.	(11.5-13.2)	(11.0-13.2)	(11.6-16.1)	(9.8-13.9)
Black	69	66	2	1
Rate*	20.8	21.4	---	---
95% C.I.	(16.0-27.0)	(16.3-28.0)	---	---
Native American	4	1	1	2
Rate*	---	---	---	---
95% C.I.	---	---	---	---
Asian	13	10	1	2
Rate*	5.0	5.1	---	---
95% C.I.	(2.2-11.2)	(1.9-13.3)	---	---
Hispanic	26	15	7	4
Rate*	7.0	5.5	---	---
95% C.I.	(4.3-10.9)	(2.8-10.0)	---	---
Other/Unknown	0	0	0	0

Note: The “---” is used for rates calculated on numbers less than ten.

*Rates are per 100,000 population and age-adjusted to the 2001 US Standard population. Rates for race/ethnicity groups are per 100,000 male population and age-adjusted to the 2001 US Standard population.

Table 100. Prostate Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001

Category	County/Region of Residence			
	Nevada Total	Clark	Washoe	All Other Counties
Total				
Mortality	922	606	170	146
Rate*	9.5	9.1	10.1	10.4
95% C.I.	(8.9-10.1)	(8.4-9.8)	(8.6-11.7)	(8.8-12.1)
Age Group				
<1	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
1-4	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
5-14	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
15-24	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
25-34	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
35-44	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
45-54	8	5	2	1
Rate*	---	---	---	---
95% C.I.	---	---	---	---
55-64	70	50	13	7
Rate*	7.6	8.0	8.7	---
95% C.I.	(5.9-9.4)	(5.8-10.3)	(4.0-13.4)	---
65-74	275	194	43	38
Rate*	42.8	44.9	41.9	35.4
95% C.I.	(37.8-47.9)	(38.5-51.2)	(29.4-54.5)	(24.2-46.7)
75-84	398	265	69	64
Rate*	113.3	113.5	119.3	106.8
95% C.I.	(102.2-124.4)	(99.8-127.1)	(91.2-147.5)	(80.7-133.0)
85+	171	92	43	36
Rate*	224.3	197.0	277.3	256.6
95% C.I.	(190.7-257.9)	(156.8-237.3)	(194.4-360.1)	(172.8-340.4)
Unknown	0	0	0	0

* Rates are per 100,000 age-specific male population.

Note: The "---" is used for rates calculated on numbers less than ten.

Table 101. Prostate Cancer Mortality by County of Residence, Nevada Residents, 1997-2001

County of Residence	1997-2001 Mortality				
	Cases	Rate*		Age-Adjusted Rate**	
		Rate	95% C.I.	Rate	95% C.I.
Carson City	40	16.1	(11.1-21.0)	13.3	(9.5-18.4)
Churchill	15	12.4	(6.1-18.7)	13.9	(7.7-23.6)
Clark	606	9.1	(8.4-9.8)	11.9	(10.9-12.9)
Douglas	18	8.8	(4.7-12.8)	10.4	(6.0-17.3)
Elko	17	7.3	(3.9-10.8)	20.1	(11.5-33.0)
Esmeralda	0	---	---	---	---
Eureka	0	---	---	---	---
Humboldt	7	---	---	---	---
Lander	1	---	---	---	---
Lincoln	4	---	---	---	---
Lyon	14	8.2	(3.9-12.5)	7.8	(4.2-13.7)
Mineral	4	---	---	---	---
Nye	16	10.2	(5.2-15.2)	9.0	(4.8-16.1)
Pershing	3	---	---	---	---
Storey	1	---	---	---	---
Washoe	170	10.1	(8.6-11.7)	13.3	(11.3-15.5)
White Pine	6	---	---	---	---
Unknown	0	---	---	---	---
Total	922	9.5	(8.9-10.1)	12.1	(11.3-13.0)

Note: The "----" is used for rates calculated on numbers less than ten. *Rates are per 100,000 male population. **Rates are per 100,000 male population and are age-adjusted to the 2001 US Standard population.

Table 102. Prostate Cancer Mortality by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

Race/Ethnicity		Gender		
		Male	Female	Total
White	Mortality	810	0	810
	Rate*	29.5	---	12.3
	95% C.I.	(27.3-31.9)	---	(11.5-13.2)
Black	Mortality	69	0	69
	Rate*	51.0	---	20.8
	95% C.I.	(38.0-68.3)	---	(16.0-27.0)
Native American	Mortality	4	0	4
	Rate*	---	---	---
	95% C.I.	---	---	---
Asian	Mortality	13	0	13
	Rate*	11.6	---	5.0
	95% C.I.	(5.1-26.1)	---	(2.2-11.2)
Hispanic	Mortality	26	0	26
	Rate*	17.6	---	7.0
	95% C.I.	(10.5-28.6)	---	(4.3-10.9)
Other/Unknown		0	0	0
Total	Mortality	922	0	922
	Rate*	29.2	---	12.1
	95% C.I.	(27.2-31.4)	---	(11.3-13.0)

Note: The "----" is used for rates calculated on numbers less than ten. *Rates are per 100,000 male population and are age-adjusted to the 2001 US Standard population.

Table 103. Prostate Cancer Mortality by Age Group and Gender, Nevada Residents, 1997-2001

Age Group	Gender		
	Male	Female	Total
<1	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
1-4	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
5-14	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
15-24	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
25-34	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
35-44	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
45-54	8	0	8
Rate*	---	---	---
95% C.I.	---	---	---
55-64	70	0	70
Rate*	15.4	---	7.6
95% C.I.	(11.8-19.0)	---	(5.9-9.4)
65-74	275	0	275
Rate*	86.8	---	42.8
95% C.I.	(76.5-97.0)	---	(37.8-47.9)
75-84	398	0	398
Rate*	251.1	---	113.3
95% C.I.	(226.4-275.7)	---	(102.2-124.4)
85+	171	0	171
Rate*	691.0	---	224.3
95% C.I.	(587.4-794.6)	---	(190.7-257.9)
Unknown	0	0	0
Total	922	0	922
Rate*	18.6	---	9.5
95% C.I.	(17.4-19.8)	---	(8.9-10.1)

Note: The “---” is used for rates calculated on numbers less than ten.

* Rates are per 100,000 age-specific population.

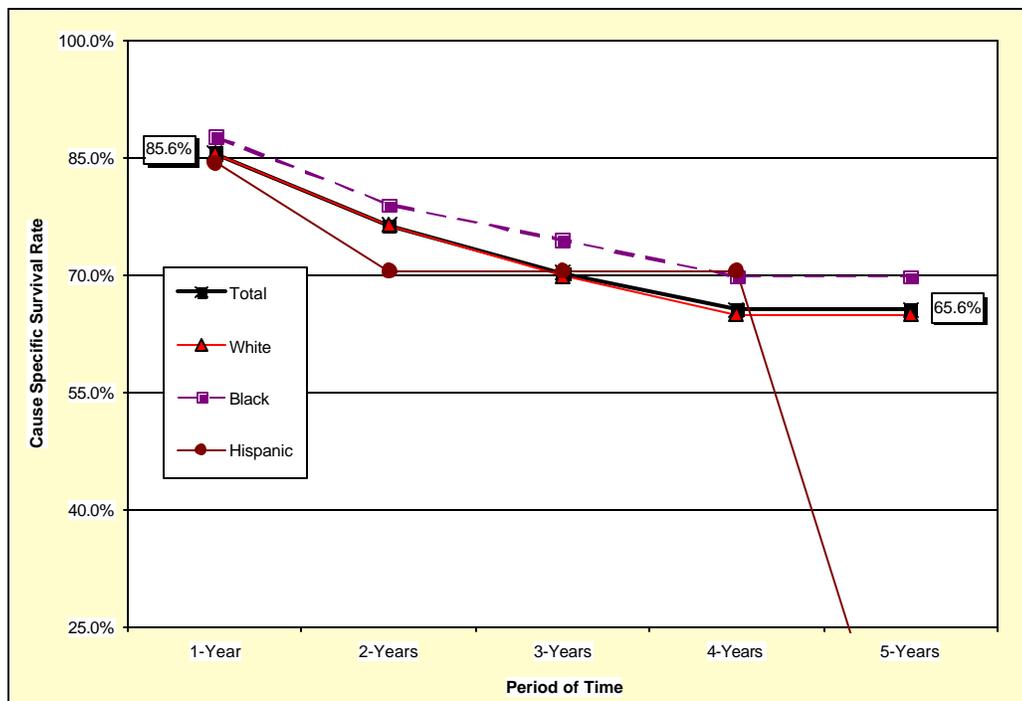
Table 104. Median Age at Death from Prostate Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

Race/Ethnicity	Gender					
	Male		Female		Total	
	Deaths	Median Age	Deaths	Median Age	Deaths	Median Age
White	810	77.0	0	---	810	77.0
Black	69	75.0	0	---	69	75.0
Native American	4	---	0	---	4	---
Asian	13	74.0	0	---	13	74.0
Hispanic	26	74.5	0	---	26	74.5
Other/Unknown	0	---	0	---	0	---
Total	922	77.0	0	---	922	77.0

Note: Those cases of other/unknown gender and/or unknown ages are not included in this table. The median age was not calculated for those numbers less than five.

SURVIVAL RATE

Figure 73. Survival Rates for Prostate Cancer by Race/Ethnicity, Nevada Residents, 1997-2001



Notes: The survival rate for those racial/ethnic groups not included in this chart could not be calculated due to small cell size.

Figure 74. Survival Rates for Prostate Cancer by Stage of Cancer at Diagnosis, Nevada Residents, 1997-2001

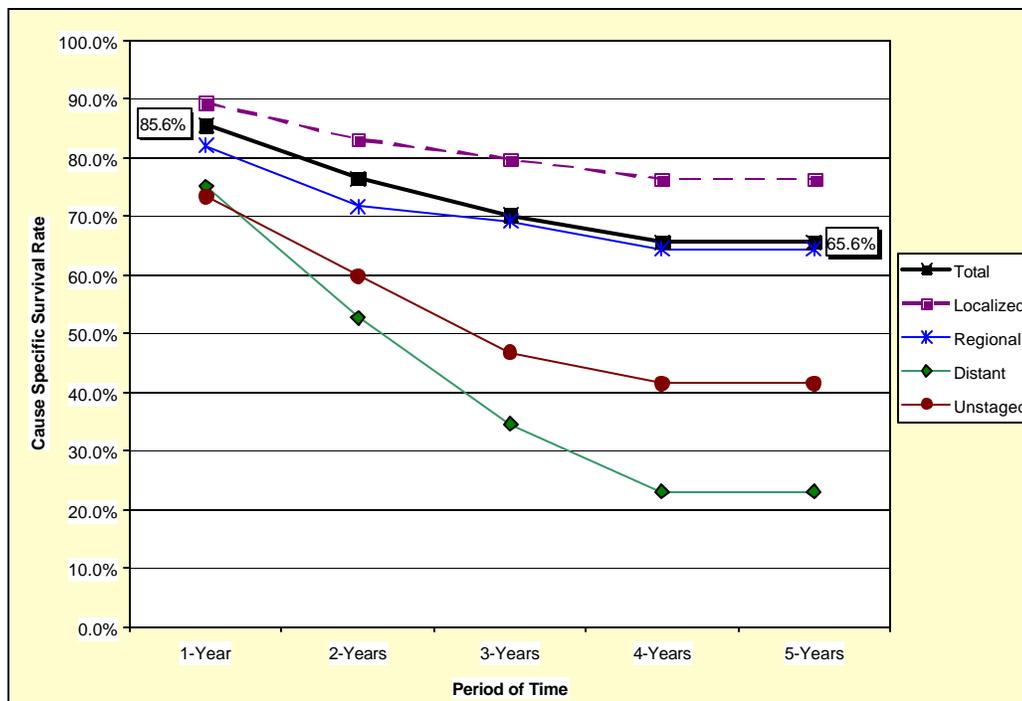


Table 105. Cause-Specific Survival Rates for Prostate Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

Race/ Ethnicity and Gender	Number of Cases	Cause Specific Survival Rate					Median Survival Time (years)
		One Year	Two Years	Three Years	Four Years	Five Years	
Total	4,518	85.6%	76.4%	70.2%	65.6%	65.6%	>5 years
Male	4,510	85.6%	76.5%	70.3%	65.6%	65.6%	>5 years
Female	8	---	---	---	---	---	---
Race/Ethnicity							
White	3,947	85.5%	76.3%	69.9%	65.0%	65.0%	>5 years
Male	3,940	85.6%	76.5%	70.0%	65.0%	65.0%	>5 years
Female	7	---	---	---	---	---	---
Black	289	87.7%	79.0%	74.5%	69.8%	69.8%	>5 years
Male	289	87.7%	79.0%	74.5%	69.8%	69.8%	>5 years
Female	0	---	---	---	---	---	---
Native American	19	---	---	---	---	---	---
Male	19	---	---	---	---	---	---
Female	0	---	---	---	---	---	---
Asian	68	76.2%	67.3%	50.5%	50.5%	50.5%	>5 years
Male	67	76.0%	67.1%	50.3%	50.3%	50.3%	>5 years
Female	1	---	---	---	---	---	---
Hispanic	154	84.4%	70.5%	70.5%	70.5%	---	---
Male	154	84.4%	70.5%	70.5%	70.5%	---	---
Female	0	---	---	---	---	---	---

Notes: 1) The “---” indicates that survival rate could not be calculated due to small cell size. Caution should be used when interpreting survival rates based upon categories with a small number of cases. 2) Those cases where the gender and/or race/ethnicity were other/unknown, are not shown separately, but are included in the category totals. 3) These rates may not be directly comparable to National rates because of different methodologies. Caution should be used when trying to compare rates for Nevada and the Nation. For more information on the calculation of survival rates, please refer to Technical Notes section.

Table 106. Cause-Specific Survival Rates for Prostate Cancer by Stage of Cancer at Diagnosis and Gender, Nevada Residents, 1997-2001

Survival Rate of Stage at Diagnosis		Gender		
		Total	Male	Female
Total	Cases	4,518	4,510	8
	One Year	85.6%	85.6%	---
	5 Years	65.6%	65.6%	---
	Median Survival	>5 years	>5 years	---
Stage at Diagnosis				
In situ	Cases	0	0	0
	One Year	---	---	---
	5 Years	---	---	---
	Median Survival	---	---	---
Localized	Cases	3,246	3,240	6
	One Year	89.4%	89.5%	---
	5 Years	76.3%	76.5%	---
	Median Survival	>5 years	>5 years	---
Regional	Cases	451	449	2
	One Year	82.0%	82.2%	---
	5 Years	64.4%	64.3%	---
	Median Survival	>5 years	>5 years	---
Distant	Cases	208	208	0
	One Year	75.0%	75.0%	---
	5 Years	23.0%	23.0%	---
	Median Survival	2.15	2.15	---
Unstaged	Cases	613	613	0
	One Year	73.3%	73.3%	---
	5 Years	41.5%	41.5%	---
	Median Survival	2.75	2.75	---

Notes: 1) The “---” indicates that survival rate could not be calculated due to small cell size. Caution should be used when interpreting survival rates based upon categories with a small number of cases. 2) These rates may not be directly comparable to National rates because of different methodologies. Caution should be used when trying to compare rates for Nevada and the Nation. For more information on the calculation of survival rates, please refer to Technical Notes section.